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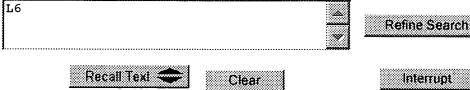
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6727224.pn.	1	<u>L5</u>
PB; PLUR=YES; OP	=OR	
L3 and injection	0	<u>L4</u>
6727224.pn.	0	<u>L3</u>
L1 and injection	1	<u>L2</u>
20040192605	1	<u>L1</u>
	PB, USPT; PLUR=YE L5 and syringe 6727224.pn. PB; PLUR=YES; OP L3 and injection 6727224.pn. L1 and injection	PB, USPT, PLUR=YES; OP=OR L5 and syringe 1 6727224.pn. 1 PB; PLUR=YES; OP=OR L3 and injection 0 6727224.pn. 0 L1 and injection 1

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ΤI

AB

L2 ANSWER 1 OF 5 USPATFULL on STN

Resorbable polymeric device for localized drug delivery
An implantable device for facilitating the healing of voids in bone,
cartilage and soft tissue is disclosed. A preferred embodiment includes
a cartilage region comprising a polyelectrolytic complex joined with a
subchondral bone region. The cartilage region, of this embodiment,
enhances the environment for chondrocytes to grow articular cartilage;
while the subchondral bone region enhances the environment for cells
which migrate into that region's macrostructure and which differentiate
into osteoblasts. Another embodiment is arranged for the local delivery
of therapeutic agent. A preferred embodiment is a porous resorbable
implant, wherein the therapy delivery may be localized in nature, rather
than systemic, such that higher doses at the target site may be allowed
than would be tolerable by the body systemically.

ACCESSION NUMBER: 2005:203692 USPATFULL

TITLE: Resorbable polymeric device for localized drug delivery

INVENTOR(S): Hoganson, David M., St. Louis, MO, UNITED STATES

Bradica, Gino, Ewing, NJ, UNITED STATES

Goldman, Scott M., Downingtown, PA, UNITED STATES

Brekke, John H., Duluth, MN, UNITED STATES

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2004-830267, filed on 21 Apr 2004, PENDING Continuation of Ser. No. US

2002-199961, filed on 19 Jul 2002, ABANDONED

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55 LEGAL REPRESENTATIVE:

East Uwchlan Avenue, Exton, PA, 19341, US

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT:

L2 ANSWER 2 OF 5 USPATFULL on STN

ΤI Device for regeneration of articular cartilage and other tissue An implantable device for facilitating the healing of voids in bone, AB cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:87019 USPATFULL

TITLE: Device for regeneration of articular cartilage and

other tissue

INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES

> Bradica, Gino, Claremont, NH, UNITED STATES Goldman, Scott M., Paoli, PA, UNITED STATES

NUMBER KIND DATE -----US 2005074481 A1 20050407 US 2004-936020 A1 20040908 (10)

PATENT INFORMATION:

APPLICATION INFO.:

Continuation of Ser. No. US 2004-830267, filed on 21 RELATED APPLN. INFO.:

Apr 2004, PENDING Continuation of Ser. No. US 2002-199961, filed on 19 Jul 2002, ABANDONED

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55

East Uwchlan Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 1288

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 5 USPATFULL on STN L2

Device for regeneration of articular cartilage and other tissue TIAB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:253786 USPATFULL

TITLE: Device for regeneration of articular cartilage and other tissue

Brekke, John H., Duluth, MN, UNITED STATES INVENTOR(S):

Bradica, Gino, Claremont, NH, UNITED STATES Goldman, Scott M., Paoli, PA, UNITED STATES

> NUMBER KIND DATE

PATENT INFORMATION:

US 2004197311 A1 20041007 US 2004-830267 A1 20040421 (10) APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-199961, filed on 19

Jul 2002, PENDING

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55

East Uwchlan Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 1322

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2ANSWER 4 OF 5 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue

An implantable device for facilitating the healing of voids in bone, AB cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:65819 USPATFULL

TITLE: Device for regeneration of articular cartilage and

other tissue

INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES

Bradica, Gino, Claremont, NH, UNITED STATES Goldman, Scott M., Paoli, PA, UNITED STATES

KIND NUMBER DATE -----

US 2003045943 A1 20030306 US 2002-199961 A1 20020719 (10) PATENT INFORMATION:

APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-206604, filed on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED,

Pat. No. US 5981825

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan

Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 1263

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 5 OF 5 USPATFULL on STN

ΤI Device for regeneration of articular cartilage and other tissue

AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a

subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between said regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:55324 USPATFULL

TITLE: Device for regeneration of articular cartilage and

other tissue

INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES

Goldman, Scott M., Paoli, PA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2002032488 A1 20020314 APPLICATION INFO.: US 2001-909027 A1 20010719 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-206604, filed

on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED,

Pat. No. US 5981825

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan

Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: 56
EXEMPLARY CLAIM: 1
LINE COUNT: 1349

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS, BIOTECHDS' ENTERED AT 14:16:36 ON 12 NOV 2005

L1 118 S ARTICULAR CARTILAGE REGENERATION

L2 5 S L1 AND OSTEOCHONDRAL GRAFT

=> s l1 and allograft

L3 17 L1 AND ALLOGRAFT

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L3 ANSWER 1 OF 17 USPATFULL on STN

TI Fiber-reinforced, porous, biodegradable implant device

AB A fiber-reinforced, polymeric implant material useful for tissue engineering, and method of making same are provided. The fibers are preferably aligned predominantly parallel to each other, but may also be aligned in a single plane. The implant material comprises a polymeric matrix, preferably a biodegradable matrix, having fibers substantially uniformly distributed therein. Inorganic particles may also be included in the implant material. In preferred embodiments, porous tissue scaffolds are provided which facilitate regeneration of load-bearing tissues such as articular cartilage and bone. Non-porous fiber-reinforced implant materials are also provided herein useful as permanent implants for load-bearing sites.

ACCESSION NUMBER: 2005:275715 USPATFULL

TITLE: Fiber-reinforced, porous, biodegradable implant device

INVENTOR (S): Slivka, Michael A., Taunton, MA, UNITED STATES

> Niederauer, Gabriele G., San Antonio, TX, UNITED STATES Kieswetter, Kristine, San Antonio, TX, UNITED STATES Leatherbury, Neil C., San Antonio, TX, UNITED STATES

NUMBER KIND DATE

----- -----US 2005240281 A1 20051027 US 2004-931474 A1 20040831 (10) PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-288400, filed

on 4 Nov 2002, GRANTED, Pat. No. US 6783712 Division of Ser. No. US 1999-426686, filed on 25 Oct 1999, GRANTED,

Pat. No. US 6511511 Continuation of Ser. No. WO

1998-US11007, filed on 29 May 1998, PENDING

NUMBER DATE

US 1997-48320P 19970530 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: GREENLEE, WINNER AND SULLIVAN, P.C., Suite 200, 4875

Pearl East Circle, Boulder, CO, 80301, US

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 10 Drawing Page(s)

LINE COUNT: 909

L3 ANSWER 2 OF 17 USPATFULL on STN

ΤI Resorbable polymeric device for localized drug delivery

AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage: while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. Another embodiment is arranged for the local delivery of therapeutic agent. A preferred embodiment is a porous resorbable implant, wherein the therapy delivery may be localized in nature, rather than systemic, such that higher doses at the target site may be allowed than would be tolerable by the body systemically.

ACCESSION NUMBER: 2005:203692 USPATFULL

TITLE: Resorbable polymeric device for localized drug delivery

INVENTOR(S): Hoganson, David M., St. Louis, MO, UNITED STATES

Bradica, Gino, Ewing, NJ, UNITED STATES

Goldman, Scott M., Downingtown, PA, UNITED STATES

Brekke, John H., Duluth, MN, UNITED STATES

NUMBER KIND DATE -----

US 2005177118 A1 20050811 US 2005-56879 A1 20050212 (11) PATENT INFORMATION: APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2004-830267, filed RELATED APPLN. INFO.:

on 21 Apr 2004, PENDING Continuation of Ser. No. US

2002-199961, filed on 19 Jul 2002, ABANDONED

DOCUMENT TYPE: FILE SEGMENT: **APPLICATION**

LEGAL REPRESENTATIVE: Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55

East Uwchlan Avenue, Exton, PA, 19341, US

NUMBER OF CLAIMS: 43 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s) LINE COUNT: 2221

ANSWER 3 OF 17 USPATFULL on STN L3

ΤI Methods and devices for tissue repair

AB Methods for treating diseased or damaged tissue in a subject are disclosed, involving administering to said subject at a site wherein diseased or damaged tissue occurs, cells of a type(s) normally found in healthy tissue corresponding to the diseased or damaged tissue, and/or suitable progenitor cells thereof, in association with bioresorbable beads or particles and optionally a gel and/or gel-forming substance. Where the cells and/or suitable progenitor cells thereof are chondrocytes, embryonic stem cells and/or bone marrow stromal cells, the methods of the invention are suitable for treating, for example, articular cartilage degeneration associated with primary osteoarthritis. Also disclosed is a device having tissue-like characteristics for treating diseased or damaged tissue in a subject, wherein the device comprises cells of a type(s) normally found in healthy tissue corresponding to the diseased or damaged tissue, and/or suitable progenitor cells thereof, in association with bioresorbable beads or particles and optionally a gel and/or gel-forming substance.

2005:104645 USPATFULL ACCESSION NUMBER:

Methods and devices for tissue repair TITLE:

INVENTOR(S): Werkmeister, Jerome Anthony, Camberwell, AUSTRALIA

Tsai, Wei-Bor, Taipei, AUSTRALIA

Ramshaw, John Alan, Victoria, AUSTRALIA

Thissen, Helmut Werner, Wheelers Hill, AUSTRALIA

Chang, Ken-Yuan, Hsinchu, AUSTRALIA

NUMBER KIND DATE -----US 2005089578 A1 20050428 US 2003-470946 A1 20020205 (10) WO 2002-AU106 20020205

NUMBER DATE

PRIORITY INFORMATION: AU 2003-2896 20010205

PRIORITY INFORMAL Utility
DOCUMENT TYPE: Utility
APPLICATION

LEGAL REPRESENTATIVE: McDermott Will & Emery, 600 13th Street NW, Washington,

DC, 20005-3096, US

NUMBER OF CLAIMS: 135 EXEMPLARY CLAIM:

PATENT INFORMATION: APPLICATION INFO.:

NUMBER OF DRAWINGS: 4 Drawing Page(s)

LINE COUNT:

L3 ANSWER 4 OF 17 USPATFULL on STN

ΤI Manufacture of autogenous replacement body parts

AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:104611 USPATFULL

TITLE: Manufacture of autogenous replacement body parts Khouri, Roger K., St. Louis, MO, UNITED STATES INVENTOR(S): Sampath, Kuber T., Medway, MA, UNITED STATES Rueger, David C., Hopkinton, MA, UNITED STATES

> NUMBER KIND DATE

PATENT INFORMATION: US 2005089544 A1 20050428 APPLICATION INFO.: US 2004-995979 A1 20041123 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-83825, filed on 27 Feb

2002, ABANDONED Continuation of Ser. No. US 2000-547601, filed on 13 Apr 2000, ABANDONED

Continuation of Ser. No. US 1995-459129, filed on 2 Jun 1995, GRANTED, Pat. No. US 6110482 Continuation-in-part

of Ser. No. US 1994-253398, filed on 3 Jun 1994,

GRANTED, Pat. No. US 5906827

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125

HIGH STREET, BOSTON, MA, 02110, US

NUMBER OF CLAIMS: 3 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 1624

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 17 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue

An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:87019 USPATFULL

TITLE: Device for regeneration of articular cartilage and

other tissue

INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES

Bradica, Gino, Claremont, NH, UNITED STATES
Goldman, Scott M., Paoli, PA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2005074481 A1 20050407 APPLICATION INFO.: US 2004-936020 A1 20040908 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2004-830267, filed on 21

Apr 2004, PENDING Continuation of Ser. No. US 2002-199961, filed on 19 Jul 2002, ABANDONED

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55

East Uwchlan Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 1 LINE COUNT: 1288

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 17 USPATFULL on STN

TI Device for regeneration of articular cartilage and other tissue

AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment,

enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:253786 USPATFULL

Device for regeneration of articular cartilage and TITLE:

other tissue

INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES

Bradica, Gino, Claremont, NH, UNITED STATES Goldman, Scott M., Paoli, PA, UNITED STATES

NUMBER KIND DATE NUMBER KIND DATE

PATENT INFORMATION: US 2004197311 A1 20041007 APPLICATION INFO.: US 2004-830267 A1 20040421 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-199961, filed on 19

Jul 2002, PENDING

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Jeffrey C. Kelly, Esq., Kensey Nash Corporation, 55

East Uwchlan Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: 30 EXEMPLARY CLAIM: 1 LINE COUNT: 1322

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 17 USPATFULL on STN

ΤI Fiber-reinforced, porous, biodegradable implant device

AB A fiber-reinforced, polymeric implant material useful for tissue engineering, and method of making same are provided. The fibers are preferably aligned predominantly parallel to each other, but may also be aligned in a single plane. The implant material comprises a polymeric matrix, preferably a biodegradable matrix, having fibers substantially uniformly distributed therein. In preferred embodiments, porous tissue scaffolds are provided which facilitate regeneration of load-bearing tissues such as articular cartilage and bone. Non-porous fiber-reinforced implant materials are also provided herein useful as

permanent implants for load-bearing sites.

ACCESSION NUMBER: 2003:111102 USPATFULL

TITLE: Fiber-reinforced, porous, biodegradable implant device

INVENTOR(S): Slivka, Michael, San Antonio, TX, UNITED STATES

Niederauer, Gabriele G., San Antonio, TX, UNITED STATES Kieswetter, Kristine, San Antonio, TX, UNITED STATES Leatherbury, Neil C., San Antonio, TX, UNITED STATES

NUMBER KIND DATE -----US 2003075822 A1 20030424 US 6783712 B2 20040831 US 2002-288400 A1 20021104 (10) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Division of Ser. No. US 1999-426686, filed on 25 Oct 1999, GRANTED, Pat. No. US 6511511 Continuation of Ser.

No. WO 1998-US11007, filed on 29 May 1998, PENDING

NUMBER DATE -----

US 1997-48320P 19970530 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: GREENLEE WINNER AND SULLIVAN P C, 5370 MANHATTAN

CIRCLE, SUITE 201, BOULDER, CO, 80303

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 6 Drawing Page(s)

LINE COUNT: 771

ANSWER 8 OF 17 USPATFULL on STN L3

ΤI Manufacture of autogenous replacement body parts

AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:92732 USPATFULL

Manufacture of autogenous replacement body parts TITLE: INVENTOR(S): Khouri, Roger K., St. Louis, MO, UNITED STATES Sampath, Kuber T., Medway, MA, UNITED STATES Rueger, David C., Hopkinton, MA, UNITED STATES

NUMBER KIND DATE -----US 2003064090 A1 20030403 US 2002-83825 A1 20020227 (10) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-547601, filed on 13

Apr 2000, ABANDONED Continuation of Ser. No. US

1995-459129, filed on 2 Jun 1995, GRANTED, Pat. No. US

6110482 Continuation-in-part of Ser. No. US

1994-253398, filed on 3 Jun 1994, GRANTED, Pat. No. US

5906827 Utility

DOCUMENT TYPE: FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125

HIGH STREET, BOSTON, MA, 02110

NUMBER OF CLAIMS: 33 EXEMPLARY CLAIM:

ΤI

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 1634

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 17 USPATFULL on STN

AB An implantable device for facilitating the healing of voids in bone, cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells

Device for regeneration of articular cartilage and other tissue

which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between the regions, of this embodiment. In one embodiment, the polyelectrolytic complex

transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:65819 USPATFULL

Device for regeneration of articular cartilage and TITLE:

other tissue

INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES

> Bradica, Gino, Claremont, NH, UNITED STATES Goldman, Scott M., Paoli, PA, UNITED STATES

KIND NUMBER DATE ______

US 2003045943 A1 US 2002-199961 A1 PATENT INFORMATION: 20030306

APPLICATION INFO.: 20020719 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-206604, filed

on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED,

Pat. No. US 5981825

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan

Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 1263

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

1.3 ANSWER 10 OF 17 USPATFULL on STN

ΤI Cartilage repair apparatus and method

ΔR An orthopaedic device for repairing and regenerating cartilage includes a plug configured to be positioned in a hole formed in the cartilage and an anchor configured to support the plug. One or both of the plug and the anchor may be formed from naturally occurring extracellular matrix such as small intestine submucosa. A method for repairing and regenerating cartilage is also disclosed.

ACCESSION NUMBER: 2003:51842 USPATFULL

TITLE: Cartilage repair apparatus and method

INVENTOR(S): Schwartz, Herbert E., Ft. Wayne, IN, UNITED STATES

Malaviya, Prasanna, Ft. Wayne, IN, UNITED STATES

Pelo, Mark J., Macy, IN, UNITED STATES

Plouhar, Pamela L., South Bend, IN, UNITED STATES

NUMBER KIND DATE -----US 2003036801 A1 20030220 US 2002-195347 A1 20020715 (10)

APPLICATION INFO.:

DATE NUMBER

PRIORITY INFORMATION: US 2001-305786P 20010716 (60) US 2002-389027P 20020614 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: BARNES & THORNBURG, 11 SOUTH MERIDIAN, INDIANAPOLIS,

IN, 46204

NUMBER OF CLAIMS: 161 EXEMPLARY CLAIM:

AB

PATENT INFORMATION:

NUMBER OF DRAWINGS: 6 Drawing Page(s)

LINE COUNT: 1659

 L_3 ANSWER 11 OF 17 USPATFULL on STN

ΤI Cartilage repair and regeneration device and method

A method for the repair of a cartilagenous tissue defect, a cartilage repair device and a method of making a cartilage repair device are disclosed. In the method for the repair of a cartilagenous tissue defect, a device comprising a scaffold, for example an extracellular matrix material, is implanted into the defect, and a biological lubricant is administered to the defect. The device comprises a scaffold, for example a naturally occurring extracellular matrix material, and a biological lubricant.

2003:45709 USPATFULL ACCESSION NUMBER:

TITLE: Cartilage repair and regeneration device and method INVENTOR (S): Plouhar, Pamela Lynn, South Bend, IN, UNITED STATES

Malaviya, Prasanna, Ft. Wayne, IN, UNITED STATES

Schwartz, Herbert Eugene, Ft. Wayne, IN, UNITED STATES

NUMBER DATE KIND -----PATENT INFORMATION:

US 2003033022 A1 20030213 US 2002-195606 A1 20020715 (10) APPLICATION INFO.:

> NUMBER DATE -----

PRIORITY INFORMATION: US 2002-388724P 20020614 (60)

US 2001-305786P 20010716 (60)

Utility APPLICATION DOCUMENT TYPE: FILE SEGMENT:

LEGAL REPRESENTATIVE: BARNES & THORNBURG, 11 SOUTH MERIDIAN, INDIANAPOLIS,

IN, 46204

NUMBER OF CLAIMS: 60
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 1074

L3 ANSWER 12 OF 17 USPATFULL on STN

ΤI Cartilage repair and regeneration scaffold and method

A method for the repair of a cartilaginous tissue defect, a cartilage AB repair device and a method of making a cartilage repair device are disclosed. In the method for the repair of a cartilaginous tissue defect, a device comprising a synthetic polymer is implanted into the defect, and a biological lubricant is administered to the defect. The device comprises a synthetic polymer and a biological lubricant.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

· ACCESSION NUMBER: 2003:45708 USPATFULL

TITLE:

Cartilage repair and regeneration scaffold and method Plouhar, Pamela Lynn, South Bend, IN, UNITED STATES INVENTOR (S):

Schwartz, Herbert Eugene, Ft. Wayne, IN, UNITED STATES

Malaviya, Prasanna, Ft. Wayne, IN, UNITED STATES

NUMBER KIND DATE -----US 2003033021 A1 20030213 US 2002-195334 A1 20020715 (10) PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE -----

PRIORITY INFORMATION: US 2002-388724P 20020614 (60) US 2001-305786P 20010716 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: BARNES & THORNBURG, 11 SOUTH MERIDIAN, INDIANAPOLIS,

IN, 46204

NUMBER OF CLAIMS: 51

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 13 OF 17 USPATFULL on STN L3

TI Fiber-reinforced, porous, biodegradable implant device

AB A fiber-reinforced, polymeric implant material useful for tissue engineering, and method of making same are provided. The fibers are preferably aliqued predominantly parallel to each other, but may also be aligned in a single plane. The implant material comprises a polymeric matrix, preferably a biodegradable matrix, having fibers substantially uniformly distributed therein. In preferred embodiments, porous tissue scaffolds are provided which facilitate regeneration of load-bearing tissues such as articular cartilage and bone. Non-porous fiber-reinforced implant materials are also provided herein useful as permanent implants for load-bearing sites.

ACCESSION NUMBER:

2003:26049 USPATFULL

TITLE:

Fiber-reinforced, porous, biodegradable implant device

INVENTOR (S): Slivka, Michael, San Antonio, TX, United States

Niederauer, Gabriele G., San Antonio, TX, United States Kieswetter, Kristine, San Antonio, TX, United States Leatherbury, Neil C., San Antonio, TX, United States OsteoBiologics, Inc., San Antonio, TX, United States

PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.:

US 6511511 B1 20030128 US 1999-426686 19991025 (9)

RELATED APPLN. INFO.:

Continuation of Ser. No. WO 1998-US11007, filed on 29

May 1998

NUMBER DATE ---**---**

PRIORITY INFORMATION:

US 1997-48320P 19970530 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

GRANTED

PRIMARY EXAMINER:

Isabella, David J

LEGAL REPRESENTATIVE:

Greenlee, Winner and Sullivan, P.C.

NUMBER OF CLAIMS:

11

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

9 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT:

786

- L3 ANSWER 14 OF 17 USPATFULL on STN
- ΤI Multilayer skin or dermal equivalent having a layer containing mesenchymal stem cells

AB A multilayer skin equivalent is formed having a scaffold layer containing dermis-forming cells, and a keratinocyte layer. The dermis-forming cells and keratinocytes are preferably autologous, and the dermis-forming cells can be human mesenchymal stem cells (MSCs), dermal fibroblasts (e.g., papillary or reticular dermal fibroblasts) or mixtures thereof. The scaffold is preferably type I collagen alone, or types I and II collagen in combination. Also formed is a multilayer skin equivalent having a scaffold layer containing a layer of extracellular matrix component containing papillary dermal fibroblasts in laminar relationship with a layer of extracellular matrix component containing reticular dermal fibroblasts, and a keratinocyte layer. A multilayer dermal equivalent is provided having a layer of extracellular matrix component containing papillary dermis-forming cells and a layer of extracellular matrix component containing reticular dermis-forming cells. In another embodiment, the dermal equivalent has a layer containing MSCs and a layer selected from a layer of extracellular matrix component containing papillary dermis-forming cells and a layer of extracellular matrix component containing reticular dermis-forming cells, and optionally a keratinocyte layer. In the skin and dermal equivalents, at least one layer may contain an agent that promotes adhesion or angiogenesis. Also present may be a bioactive agent that enhances proliferation, commitment or differentiation of mesenchymal stem cells into dermal components, either in vitro or in vivo. An

injectionable composition is also provided containing dermis-forming cells and an extracellular matrix component in a pharmaceutically acceptable injectable carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:340143 USPATFULL

TITLE: Multilayer skin or dermal equivalent having a layer

containing mesenchymal stem cells

INVENTOR(S): Sorrell, J. Michael, Cleveland Heights, OH, United

States

Caplan, Arnold I., Cleveland Heights, OH, United States

PATENT ASSIGNEE(S): Case Western Reserve University, Cleveland, OH, United

States (U.S. corporation)

NUMBER KIND DATE -----US 6497875 B1 20021224 WO 9741208 19971106 PATENT INFORMATION: 19971100 19981026 (9) 19970424 US 1998-171445 WO 1997-US6760 APPLICATION INFO.: 19981026 PCT 371 date

NUMBER DATE -----

PRIORITY INFORMATION: US 1996-16317P 19960426 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED PRIMARY EXAMINER: Naff, David M.

LEGAL REPRESENTATIVE: Olstein, Elliot M., Lillie, Raymond J.

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 1946

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 17 USPATFULL on STN

Device for regeneration of articular cartilage and other tissue ΤI An implantable device for facilitating the healing of voids in bone, AB cartilage and soft tissue is disclosed. A preferred embodiment includes a cartilage region comprising a polyelectrolytic complex joined with a subchondral bone region. The cartilage region, of this embodiment, enhances the environment for chondrocytes to grow articular cartilage; while the subchondral bone region enhances the environment for cells which migrate into that region's macrostructure and which differentiate into osteoblasts. A hydrophobic barrier exists between said regions, of this embodiment. In one embodiment, the polyelectrolytic complex transforms to hydrogel, following the implant procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:55324 USPATFULL

TITLE: Device for regeneration of articular cartilage and

other tissue

INVENTOR(S): Brekke, John H., Duluth, MN, UNITED STATES

Goldman, Scott M., Paoli, PA, UNITED STATES

NUMBER KIND DATE US 2002032488 A1 20020314 US 2001-909027 A1 20010719 (9) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-206604, filed

on 7 Dec 1998, GRANTED, Pat. No. US 6264701 Division of Ser. No. US 1994-242557, filed on 13 May 1994, GRANTED,

Pat. No. US 5981825

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Alan D. Kamrath, Kensey Nash Corporation, 55 E. Uwchlan

Avenue, Exton, PA, 19341

NUMBER OF CLAIMS: 56 EXEMPLARY CLAIM: 1 1349 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 16 OF 17 USPATFULL on STN

Manufacture of autogenous replacement body parts ΤI

AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:113511 USPATFULL

Manufacture of autogenous replacement body parts TITLE: INVENTOR(S): Khouri, Roger K., St. Louis, MI, United States Sampath, Kuber T., Medway, MA, United States

Rueger, David C., Hopkinton, MA, United States

PATENT ASSIGNEE(S): Styker Corporation, Kalamazoo, MI, United States (U.S.

corporation)

NUMBER KIND DATE -----US 6110482 20000829 US 1995-459129 19950602 (8)

PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-253398, filed

on 3 Jun 1994, now patented, Pat. No. US 5906827

DOCUMENT TYPE: Utility FILE SEGMENT: Granted FILE SEGMENT: PRIMARY EXAMINER:

Mullis, Jeffrey C.

LEGAL REPRESENTATIVE: Testa, Hurwitz & Thibeault, LLP

NUMBER OF CLAIMS: 30 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 1672

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

1.3 ANSWER 17 OF 17 USPATFULL on STN

TT Manufacture of autogenous replacement body parts

AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

ACCESSION NUMBER: 2000:21237 USPATFULL

TITLE: Manufacture of autogenous replacement body parts INVENTOR(S): Khouri, Roger K., St. Louis, MO, United States Sampath, Kuber T., Medway, MA, United States Rueger, David C., Hopkinton, MA, United States

PATENT ASSIGNEE(S): Stryker Corporation, Hopkinton, MA, United States (U.S.

corporation)

NUMBER KIND DATE -----US 6027743 20000222 US 1995-458811 19950602 (8) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-253398, filed

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on 3 Jun 1994, now patented, Pat. No. US 5906827
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DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Mullis, Jeffrey C.

LEGAL REPRESENTATIVE: Testa, Hurwitz & Thibeault, LLP

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 1649

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